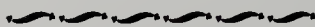


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WING-DIMORPHISM IN *PATROBUS LONGICORNIS*  
SAY (COLEOPTERA: CARABIDAE)

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The hind-wings of *Patrobus longicornis* are usually vestigial, but 14 specimens have been seen from Illinois, Iowa, Kentucky, Massachusetts, Michigan, New York, South Carolina, Washington (Darlington, P. J. 1936. Variation and atrophy of flying wings of some carabid beetles. *Ann. Ent. Soc. Amer.* 29:136-179), Newfoundland (Lindroth, C. H. 1955. The carabid beetles from Newfoundland. 12:1-160) and North Carolina (Lindroth. 1969. Ground-beetles of Canada and Alaska. 6:945-1192). I examined 386 specimens from Quebec and found 16 fully-winged specimens from the following localities: Abitibi Co., Lac Chicobi, 2-VII-1968 (1 female, 1 male); Lebel-sur-Quévillon, 16-VII-1968 (1 female); Mancebourg, 18-VI-1968 (1 female). Argenteuil Co., Ile Carillon, (1 female, 1 male). Charlevoix-Est Co., Baie-Sainte-Catherine, 27-VI-1969 (1 female). Gaspé-Ouest Co., Mont-Albert, 3-VIII-1965 (1 male). Ile-de-Montréal, Montréal, 8-VII-1967 (1 female). Iles-de-la-Madeleine Co., Ile au Loup, 5-VIII-1970 (2 females). Lévis Co., Lauzon, 5-VIII (1 female). Montcalm Co., Saint-Emile-de-Montcalm, 17-VIII-1966 (1 female). Saguenay Co., Grandes-Bergeronnes, 27-VI-1966 (1 female). Vaudreuil Co., Rigaud, 24 and 29-VIII-1969 (2 females). In Quebec, the long-winged forms are scarce, not geographically restricted, occur in both sexes and in populations with short-winged specimens.

